

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER: \_\_\_\_\_**

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**


[ABOUT DELPHION](#)
[PRODUCTS](#)
[NEW EVENT](#)
[MY ACCOUNT](#)
[IP SEARCH](#)
[HELP](#)
[Browse Codes](#)
[IP Listings](#)
[Prior Art](#)
[Derwent](#)
[Advanced](#)
[Boolean](#)
[Quick/Number](#)
[Log Out](#)
[Order Form](#)
[Work Files](#)
[View Cart](#)

The Delphion  
Integrated  
View

Other Views:  
[INPADOC](#)

Title: **JP56162473A2: PREPARATION OF ORGANIC ELECTROLYTE BATTERY**

► [Want to see a more descriptive title highlighting what's new about this invention?](#)

Country: **JP Japan**  
Kind: **A**

Inventor(s): **TAKEMORI MASAMI**  
**YOKOYAMA KENICHI**

Applicant/Assignee: **HITACHI MAXELL LTD**

**1 Inquire Regarding Licensing**

[News, Profiles, Stocks and More about this company](#)

Issued/Filed Dates: **Dec. 14, 1981 / May 20, 1980**

Application Number: **JP1980000066719**

IPC Class: **H01M 4/08;**

Priority Number(s): **May 20, 1980 JP1980000066719**

Abstract:

**Purpose:** To increase the operational voltage under low temperature and heavy load discharging by removing oils on the lithium surface through heat-treatment of lithium in a vacuum when a battery is produced using lithium as an active material for a cathode.

**Constitution:** A lithium plate stored in kerosene is taken out from the kerosene, rolled to a foil using liquid paraffin as a lubricant, placed in a vacuum dryer, evacuated to 100mmHg or less absolute pressure, heated at a temperature of 180°C, that is the melting point of lithium, or lower, and thus oils on the lithium surface is removed. Then, it is combined in a battery to form the battery. Because the reduction of the operational voltage under low temperature and heavy load discharging due to the oils on the lithium surface can be prevented, and the battery performance can be greatly improved.

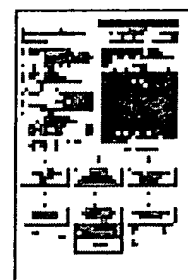
COPYRIGHT: (C)1981,JPO&Japio

► [See a clear and precise summary of the whole patent, in understandable terms.](#)

Family: [Show known family members](#)

Other Abstract Info: **CHEMABS 096(14)112276H**

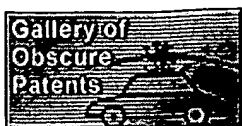
Foreign References: **No patents reference this one**



[View Image](#)

1 page





Nominate this  
for the Gallery...

---

[Subscribe](#) | [Privacy Policy](#) | [Terms & Conditions](#) | [FAQ](#) | [Site Map](#) | [Help](#) | [Contact Us](#)

© 1997 - 2002 Delphion Inc.

56162473 A

(11) Publication number: **56162473 A**

Generated Document.

**PATENT ABSTRACTS OF JAPAN**(21) Application number: **55066719**(51) Intl. Cl.: **H01M 4/08**(22) Application date: **20.05.80**

(30) Priority:

(43) Date of application publication: **14.12.81**

(84) Designated contracting states:

(71) Applicant: **HITACHI MAXELL LTD**(72) Inventor: **TAKEMORI MASAMI  
YOKOYAMA KENICHI**

(74) Representative:

**(54) PREPARATION OF  
ORGANIC ELECTROLYTE  
BATTERY**

(57) Abstract:

**PURPOSE:** To increase the operational voltage under low temperature and heavy load discharging by removing oils on the lithium surface through heat-treatment of lithium in a vacuum when a battery is produced using lithium as an active material for a cathode.

**CONSTITUTION:** A lithium plate stored in kerosene is taken out from the kerosene, rolled to a foil using liquid paraffin as a lubricant, placed in a vacuum dryer, evacuated to 100mmHg or less absolute pressure, heated at a temperature of 180°C, that is the melting point of lithium, or lower, and thus oils on the lithium surface is removed. Then, it is combined in a battery to form the battery. Because the reduction of the operational voltage under low temperature and heavy load discharging due to the oils on the lithium surface can be prevented, and the battery performance can be greatly improved.

